

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/007631

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E01C13/08 D01D5/253

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E01C D01D D01C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 940 522 A (WESSELLS JOHN HUMPHREY) 24 February 1976 (1976-02-24)	1,3,5, 7-9,13, 14, 16-22, 24,26, 28-31, 36-38, 40,42-46
Y	column 1, line 21 - column 4, line 44 column 8, lines 10-29 figures 2,5	2,10-12, 15,23, 32-35,39
Y	----- US 5 811 040 A (MALLONEE WILLIAM C) 22 September 1998 (1998-09-22) column 1, line 58 - column 2, line 2 figures 2,3 ----- -/--	2,15,23, 39

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

19 November 2004

Date of mailing of the international search report

25. 04. 2005

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 922 462 A (HOYT MATTHEW B ET AL) 13 July 1999 (1999-07-13) column 3, lines 24-29 figure 4	2,15,23, 39
Y	----- US 3 837 980 A (NISHIMURA T ET AL) 24 September 1974 (1974-09-24) the whole document	10-12, 32-35
A	----- EP 0 530 489 A (DU PONT) 10 March 1993 (1993-03-10) abstract; figure 6 -----	12,34

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International application No.
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Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 41
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-40, 42-46

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 41

In view of the wording of claim 41 presently on file, which relies on a reference to the drawings and thus does not define clearly the technical features of the invention, the present invention fails to comply with the clarity and conciseness requirements of Article 6 PCT (see also Rule 6.2 (a) PCT) to such an extent that a meaningful search is not possible for this claim .

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-40,42-46

Artificial turf filament with a cross section that includes a central area and two wing areas being arranged in a diverging orientation on opposite sides of said central area.

2. claims: 47-66

Bundle of a plurality of artificial turf filaments held together by one or more wrapping filaments wrapped around said turf filaments.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/007631

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3940522	A	24-02-1976	CA 973028 A1 DE 2129710 A1 FR 2096340 A5 NL 7108287 A US 2961982 A	19-08-1975 30-12-1971 11-02-1972 20-12-1971 29-11-1960
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EP 0530489	A	10-03-1993	US 5108838 A AU 656007 B2 AU 2129892 A CA 2076600 A1 DE 69207999 D1 DE 69207999 T2 EP 0530489 A1 JP 3243007 B2 JP 6108302 A JP 3468759 B2 JP 2002088564 A MX 9204921 A1 US 5176926 A US 5208106 A ZA 9206495 A	28-04-1992 19-01-1995 04-03-1993 28-02-1993 14-03-1996 22-08-1996 10-03-1993 07-01-2002 19-04-1994 17-11-2003 27-03-2002 01-03-1993 05-01-1993 04-05-1993 28-02-1994